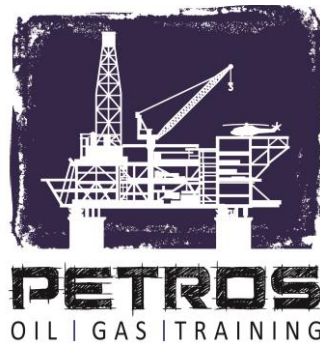


Certificate No : 2022- OFS-063-04-TR

Date : July 20<sup>th</sup> , 2022



# CERTIFICATE OF ACCOMPLISHMENT

This is to certify that

**IRHAS RIHSYAT**  
ID NUMBER : OFS-063-04

has completed

**OFFSHORE STRUCTURE DESIGN  
TRANSPORTATION ANALYSIS**

Held by **PETROS Oil Gas Training** – Jakarta,  
June 25<sup>th</sup> & 28<sup>th</sup> , 2022, covering the subjects as listed on the back page



Certificate Validation

A handwritten signature in black ink, appearing to be "Heru Prasadja", written in a cursive style.

**Heru Prasadja, ST**  
Director

# OFFSHORE STRUCTURE DESIGN - TRANSPORTATION ANALYSIS

## SUBJECTS

- Introduction
- Objective Of The Analysis
- Design Premises
  - Project Specification & Design Criteria
  - Codes and Standards
  - API RP2A-WSD. 21st Edition,
  - AISC13th Edition/ASD,
- Weight Provisions
- Weight Contingencies
- Loading
  - Gravity Load
  - Barge Motion
    - Roll, Pitch & Heave Coefficient
    - Deck Position On the Barge
  - Force Inertia due to Roll & Pitch
  - Forces Due To Roll, Pitch and Heave Motions
  - Wind Load
- Loading Combinations
  - Static Case
  - Dynamic Cases :
    - Roll + Heave
    - Pitch + Heave
    - 80% roll + 60% Pitch + 100% Heave
    - 60% roll + 80% Pitch + 100% Heave
- Transportation Analysis computer modeling
  - Deck Position on the Transportation Barge Assumption
  - Structural Model
  - Boundary Conditions
  - Sacs Run Stream
- Transportation Analysis Report Preparation

**FINAL PROJECT : TRANSPORTATION ANALYSIS OF 103 TONS DIESEL STORAGE PLATFORM**